IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

oplicant(s): Ross, et al.

Examiner: Toan C. To

Serial No.: 10/051,968

Group Art Unit: 3616

Filed: January 16, 2002

For: SPACER APPARATUS FOR SUSPENSION BEAM BUSHING ASSEMBLIES

AFFIDAVIT UNDER 37 C.F.R. § 1.132

| STATE OF OHIO |) | |
|-----------------|---|-----|
| |) | ss: |
| COUNTY OF STARK |) | |

John Edward Ramsey, being duly sworn, does hereby depose and say as follows, having personal knowledge of the facts sworn to herein:

- 1. That he attended college at the University of Akron from 1970 to 1972 and 1983; and Kent State University from 1973 to 1974; and Broward Community College from 1976 to 1979; and graduated summa cum laude from Walsh University with a bachelor's degree in business in 2002.
- 2. That he completed course work in subject matter including math, machine design, DC and AC currents, chemistry, physics and graphics;
- 3. That he was employed at Spectrum Designs, Novatronics and Wean United from about 1972 to about 1980;

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| | • | |
|---------|------------|---|
| | 4. | That during his employ at Spectrum Designs he designed tooling for Pratt & |
| Whitn | ey Airc | raft Engines; |
| | | |
| | 5. | That he worked in Electromechanical Design at Novatronics; |
| | | |
| | 6. | That he worked as a machine shop helper at Wean United; |
| | | |
| | 7. | That he has been employed by Hendrickson Trailer Suspension Systems, a |
| divisio | on of T | he Boler Company, in Canton, Ohio, or its predecessors in interest, since about |
| 1980, | first as a | a suspension designer; |
| | | |
| | 8. | That in about 1983 to 1984, he was promoted to a design engineer; |
| • | | |
| | 9. | That in about 1987, he was promoted to a project engineer; |
| | | |
| | 10. | That in about 1991, he was promoted to a principal engineer; |
| | | |

That in about 1995, he was promoted to senior principal engineer;

and currently holds that position;

That in about 2000, he was promoted to Manager of New Product Development

11.

12.

- 13. That "glove washer" and "cap style spacer" each is a term used to describe the invention claimed in Claims 1-4 and 11 of U.S. Patent Application Serial No. 10/051,968 filed January 16, 2002, and assigned to The Boler Company.
- 14. That under his direction, two graphs were prepared, attached as Exhibits A and B to this Affidavit, showing, respectively, for each of the years 2003 and 2004, the number of cap style spacers sold directly to customers for use on existing customer suspension assemblies, and the number of cap style spacers used by The Boler Company on its suspension assemblies sold to its customers; and that such sale and use figures include cap style spacers sold and used by all U.S. and international divisions/operations/companies of The Boler Company.
- 15. That the 2003 graph shows rapid acceptance after commercial introduction of the cap style spacers of The Boler Company, as well as sustained commercial acceptance/success.
- 16. That the 2004 graph shows increasing commercial acceptance/success of the cap style washers.
- 17. That he compiled the Glove Washers Regional Managers Reports attached hereto as Exhibit C.
- Washer's Regional Managers Reports are labeled "CUSTOMER A-H." That in each questionnaire, the company name of the customer, its address, its contact, the date, its phone, the trailer builder, the suspension, the configuration, the trailer D.I.S. and the serial number, together with other selected information on certain questionnaires, have been redacted at his direction due

to the confidential and/or proprietary and/or sensitive business information nature of such redacted information.

- 19. That the glove washer questionnaire completed and submitted to Hendrickson by Customer A and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.
- 20. That the glove washer questionnaire completed and submitted to Hendrickson by Customer B and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.
- 21. That the glove washer questionnaire completed and submitted to Hendrickson by Customer C and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.
- 22. That the glove washer questionnaire completed and submitted to Hendrickson by Customer D and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.
- 23. That the glove washer questionnaire completed and submitted to Hendrickson by Customer E and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.

24. That the glove washer questionnaire completed and submitted to Hendrickson by Customer F and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.

25. That the glove washer questionnaire completed and submitted to Hendrickson by Customer G and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.

26. That the glove washer questionnaire completed and submitted to Hendrickson by Customer H and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.

Further Affiant sayeth not.

MHN EDWARD RAMSEY

BEFORE ME, a Notary Public in and for said County and State, personally appeared **John Edward Ramsey**, who signed the foregoing AFFIDAVIT in my presence and who acknowledged the same to be his free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal this 19th day of January, 2005.

(SEAL)

Attorney Docket No. HEND-AI (45007-144)

«CT2:429424_1»



Cap Style Spacers Sold and Used 2003

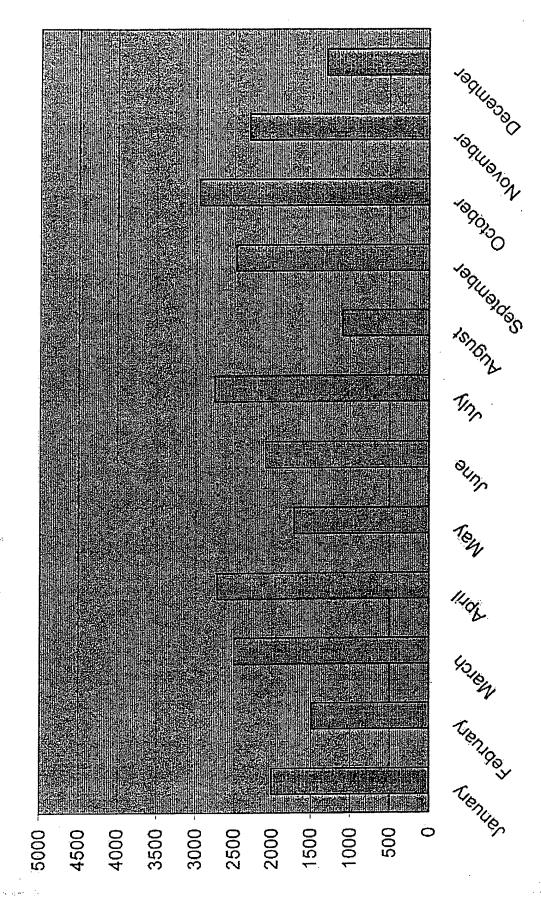


EXHIBIT A

EXHIBIT B

Glove Washers

REGIONAL MANAGERS REPORTS



February 2004



| Company Name | | | Date: | |
|---|--|--|--|---|
| Address: | | | Phone: | |
| Contact: Trailer Builder: | | | Suspension: | Light Company of the |
| Configuration: | | | Trailer D.I.S | |
| Serial No: Glove Washers | Date Fitted: | 03/03 | Date Removed: | In Service |
| Unacceptable Que Fleet Purchased Gi Failure Not Picked Qumage Was Done | rey Flat Collars For Up As Vehicles Wor To Hangers And 1 | Installation To Have rking In Western Qu Trailing Amis | Them Fall Out After Only leensland. ial Glove Type Wear Collars Original Collars Filted. | Weeks Of Service. |
| Operators Commoditions Glove Type Collars Fluet Is Happy Wi | nents: s Have So Far Laste th These Results At | ed 3 Times The Amo | ount Of Time The Flat Colla | rs Were In Service. |
| Comments From | Taller rieds and p | ny Off-Road Work, A | rs The Ficet Will Not Take nd Have Been That We Ha applications Such As Loggir e The Collars Work Very W Wearable Part, They Are H | ig, Livestock And Piliting |



| Company Name Date: |
|---|
| Address: |
| Contact: Phone: |
| Trailer Builder: Suspension: |
| Configuration: Trailer D.I.S |
| Serial No: Glove Washers Date Fitted: November 2003 Date Removed: |
| History: have had a history of their Tippers with fitted, chopping out the wear pads and Bush Migration. |
| This tanker has experienced the same issues with Rigs must turn sharply on concrete pads when loading and unloading |
| Operators Comments: It is early days yet, but since fitting to have also fitted to units progressively There appears to be a significant improvement with very little evidence of wear in the glove washers |
| Regional Managers Comments: This has been an ongoing issue with the flect and caused them to revert to on the last order. Their confidence in our Suspension has been increased with this change. |



| Company Name Date: |
|--|
| Address: |
| Contact: |
| Transport of the second of the |
| Trailer Builder: |
| Configuration |
| Serial No: Glove Washers Date Fitted: ! November 2003 Date Removed: |
| History: Road Train Tankets run from Adelaide to Mooba Gas Fields over Bitumum roads with the last 200 kms enmade gravel road |
| Wear pads completely gone after only 6 months of operation, bushes also migrating. Got to be a major improvement |
| Drivers also have expressed significant improvement in handling and stability |
| Operators Comments: Signature: S |
| |
| |
| Regional Managers Comments: This has been an ongoing issue with the fleet and caused them to revert to on the last order. |
| Their confirlence in our Suspension has been increased with this change. |
| |



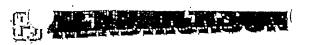
| Date: | |
|---|------------|
| Company Name | |
| Address: Phone: | - |
| Contact: | - |
| Trailer Builder: Suspension: | |
| Configuration: Trailer D.L.S | |
| Serial No: | |
| Giove Washers Date Fitted: November 2002 Date Removed: Still in Service | <u>:</u>] |
| History: The type of application of these Cane Trailers is severe The Standard wear pads that were used prior on this trailer only had a six month service period. | |
| | |
| | , , - |
| Operators Comments: The fleet owner has had trouble tracking the trailer, But has found is: The trailer has now covered 250,000 km since the glove washers were installed and is more than happy with the results, The fleet has purchased new tankers since and have been fitted with the control of the wear washers is "Very Good" | |
| | |
| | |
| Regional Managers Comments: From my point of view and comment from other fleets. | |
| The Glove washer is a great Upgrade, | |
| | |
| | n- |
| | |



| Сотралу Мате | | | Date: |
|--|---|---|--|
| Address | | ************************************** | Phone: |
| Contact | | <u> </u> | |
| Trailer Builder: | 1 | | Suspension: |
| Configuration: | T | | Trailer D.I.S |
| Serial No: Glove Washers | Date Fitted: | December 2002 | Date Removed: October 2003 |
| History: 17 Glove style wash The trailer has trave | ers supplied by Her fled approx. 180,00 | ndrickson were fitted t 00 km or more. | o a Tipper on 20 th December 2002 |
| At the moment then | washers were filte | ger wear or migration. | standard fitment when bushes are replaced. |
| Needs replacing. | rs are nothing but s on the inside of the years the centre ou | it and gives no suppor | m migration on the bush rcle and wearing the hanger, which in turn t at all. |
| I can highly recomm Washers. | nend the litting of | the Glove washer to n | educe all problems from the previous style wa |
| Regional Manage Customer is very ha This operator runs | อบอง พนิก องอเลแ เร | esults. | |
| | ,,,,,,,, | | |



| Company Name Date: |
|--|
| |
| Address: Phone: |
| Contact! |
| Trailer Bunder: |
| Configuration: Trailer D.I.S |
| Serial No: |
| Glove Washers Date Fitted: December 2003 Date Removed: |
| |
| History: Customer has accepted regular replacement of wear pads due to severe conditions encountered |
| In Northern Australia |
| Bush Migration has been an issue, but only if the wear pads were not maintained. |
| |
| |
| |
| Operators Comments: Joo early to tell, but has got to be a major improvement |
| Drivers have commented on improved handling chariteristics on multi trailer road trains |
| 44 - 1940 |
| |
| |
| |
| Regional Managers Comments: Product improvement to reduce maintenance has got to be a priority to retain major ficet customer. |
| Product improvement to reduce manifements |
| |
| |
| Alternative effects and the second formation of the se |



| | Date: Date: |
|--|---|
| Соптрапу Vame | |
| Address: | |
| , 2// 1 | Phone: |
| Contact: | FIGURE |
| Trailer Builder: | Suspension: |
| Hailer barrage 4 | |
| Configuration: | Trailer D.I.S |
| | |
| Serial No: | |
| Glove Washers E | Date Fitted: July 2002 Date Removed: Still in Service |
| THE STATE OF THE S | |
| - 27 | |
| History: | ilers used to pick up 20 Ton bales of cotton from the field and transport them to |
| the Cin for proceeding | During the season they operate around the clock for approxi- |
| Those bailers are alway | ys turning on tight pads at each end of the trip. |
| Previously the trailers I | ys turning on tight pads at each end of the up. had to be taken out of serviced to change the wear pads at least once during the |
| season - with the resu | lant down time. |
| | |
| | |
| , 14 | |
| | |
| Operators Comment | · · · · · · · · · · · · · · · · · · · |
| | |
| These are high capital | value (\$350,000) units that must be utilised to maximum capacity during the |
| | value (\$350,000) times that must be adjused and premature failure of the real hour maintenance period between shifts and premature failure of the accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant accommodated for - this meant the units wear kept working with resultant accommodated for - this meant accommodated |
| | |
| | THE PARTY AND ARREST OF THE PROPERTY OF THE PR |
| We are into our 3 rd see | ason with not a failure. To say we are happy would be an understatement. |
| We were almost ready | to pull the out |
| We have changed our | whole fleet to these, including our Road Train Tippers and specified it on our new |
| Tipper trailers. | |
| | · · |
| Regional Managers | Comments: |
| The owners comments | show how please they are with this improvement. |
| Here was a customer v | who was about to cut the with this improvement is speccing it on new trailers. |
| | |
| | |
| | |
| . HA | |
| | |
| | |



| Company Name | Date: |
|--|---|
| Address: | |
| Contact: | Phone: |
| Trailer Builder: | Suspension: |
| Configuration: | Trailer D.I.S |
| Serial No: | |
| Glove Washers | Date Fitted: July 2002 Date Removed: |
| harman (| |
| History: This customer has In mining and Off f | had a long history of Bush Migration on trailers Tippers and Dollies Road applications on Road Trains. |
| They have tried ma | nry "Fixes" including making their own "Bush". |
| Wear pads normall | y last 3 months and bush migration starts soon after. |
| | |
| | |
| Operators Comm | rating non stop in Mining operation and the Site Maintenance |
| Manager is "Very h | |
| Can't get it back to | the workshop to remove the Glove washers as re- |
| Want to take it out | O SCIVICE. |
| | |
| | |
| | |
| | |
| Migration issue. | to other suspension suppliers for all their gear since as a superior of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all their gear since as a supplier of the suppliers for all the suppliers |
| The fact that the G | Slove Washers are working is a good start to winning back their business. |
| | |
| | |
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